

After the reaction time, compare the color of the tube with the standard colors. The nearest color indicates the measured value of the sample. A color between two standard colors indicates a value between the two standard values.

Care in handling of PACKTEST before and after use

Keep PACKTEST in a cool, dry and dark place.

PACKTEST should be thrown with burnable garbage. Conform to the legislation of waste management. Use a package as soon as possible after opening.

First Aid Measures

K-1 reagent contains a strong alkali (pH>12.5). It is harmful and corrosive to eyes and skin.

Small pack reagent contains Devarda's alloy (Cu 50%, Al 45%, Zn 5%)

Eye contact \longrightarrow Immediately rinse eyes with water for at least 15 minutes. Consult a physician.

Skin contact \longrightarrow Immediately flush skin with water.

Ingestion \longrightarrow Immediately rinse mouth. Consult a physician.

n case of doubt, consult a physician.



PACKTEST Total Nitrogen (Inorganic)

Features

The Total Inorganic Nitrogen PACKTEST allows to measure the sum of nitrate-nitrogen (NO_3^-N) , nitrite-nitrogen (NO_2^-N) and ammonium nitrogen (NH_4^+N) concentrations from various water samples. It is based on the Indophenol blue color comparison method used in the Japanese standard JIS K 0102 42.2.

Cautions

- 1. The Total Inorganic Nitrogen PACKTEST allows to measure the Total nitrogen concentration from inorganic compounds. Total nitrogen of organic compounds can not be measured.
- 2. If the pH is below 4, adjust it a sodium hydroxide solution.
- 3. Remove the cap from the cup during the 15 minutes of waiting to prevent a leak of alkaline solution.
- 4. Ensure that PACKTEST tube is filled up to the half. If the tube can not be filled in one time, the tube must be shaked 10 times before the second filling.
- 5. Partially undissolved reagent from the K2 reagent will not affect the measurement.
- 6. Partially undissolved reagent in the tube will not affect the measurement.
- 7. Keep sample temperature in the range 15°C 30°C.
- 8. Read the test under daylight type lamp.
- 9. Carefully rince the small pipette before use with the sample.
- 10. Put the line back into the aperture before use to prevent reagent spilt.

Interferences

Standard colors were determined from standard solutions. However, coexisting substances will cause inaccurate results. The list below reports ion concentrations under which ones interferences are insignificant:

 \leq 1000 mg/L : Al³⁺, B³⁺, Ba²⁺, Cl⁻, F⁻, I⁻, K⁺, Mg²⁺, Na⁺, PO₄³⁻, SO₄²⁻, anionic surfactant, Phenol,

Residual Chlorine

- \leq 500 mg/L : Ca²⁺,
- ≤ 200 mg/L : Cu²⁺
- \leq 100 mg/L : Cr³⁺, Ni²⁺, formaldehyde
- \leq 50 mg/L : Co²⁺, Mn²⁺, Zn²⁺
- \leq 10 mg/L : CN⁻, Cr⁶⁺, Fe³⁺
- $\leq 1 \text{ mg/L}$: Fe²⁺

The Total Inorganic Nitrogen PACKTEST is not suitable for sea water samples.